

# Contents

- Abrams, A.**, see Janowsky, D. S., et al. 295
- Aguilar-Jiménez, E.**, see Rojas-Ramírez, J. A., et al. 147
- Albala, B. J.**, see Palfai, T., et al. 269
- Alfredsson, G., Wiesel, F.-A., Skett, P.**  
Levels of Chlorpromazine and its Active Metabolites in Rat Brain and the Relationship to Central Monoamine Metabolism and Prolactin Secretion 13
- Ames, F.**, see Levett, A., et al. 79
- Baldessarini, R. J., Kula, N. S., Walton, K. G.**  
Behavioral Effects of Apomorphine and Diisobutryl-apomorphine in the Mouse 45
- Banerjee, U., Das, P.**  
Comparative Study of Retrograde Amnesia in Rats on Active and Passive Avoidance Tasks and Spontaneous Recovery of Memory 299
- Bartus, R. T., Johnson, H. R.**  
Primate Information Processing Under Sodium Pentobarbital and Chlorpromazine: Differential Drug Effects with Tachistoscopically Presented Discriminative Stimuli 249
- Becker, B. F.**, see Greil, W., et al. 19
- Bergman, H.**, see Högman, B., et al. 165
- Bernal-Pedraza, J. G.**, see Rojas-Ramírez, J. A., et al. 147
- Bertler, Å.**, see Post, C., et al. 105
- Bloom, F.**, see Janowsky, D. S., et al. 295
- Borg, S.**, see Högman, B., et al. 165
- Braestrup, C.**, see Randrup, A. 309
- Branconnier, R.**, see Hartmann, E., et al. 185
- Brown, O. M.**, see Palfai, T., et al. 269
- Brucato, A.**, see Cannizzaro, G., et al. 243
- Cannizzaro, G., Provenzano, P. M., Brucato, A., Gianguzza, S.**  
Influence of the Suspension of Continued Treatment with Flurazepam and Amobarbital on Two Discrimination Learning Schedules 243
- Carlini, E. A.**  
Further Studies of the Aggressive Behavior Induced by  $\Delta^9$ -Tetrahydrocannabinol in REM Sleep-Deprived Rats 135
- Castellano, C.**  
Effects of Chlorpromazine and Imipramine on Discrimination Learning, Consolidation, and Learned Behavior in Two Inbred Strains of Mice 27
- Chawla, N.**, see Saxena, P. N., et al. 89
- Colpaert, F. C., Niemegeers, C. J. E., Janssen, P. A. J.**  
Differential Haloperidol Effect on Two Indices of Fentanyl-Saline Discrimination 169
- Crowley, T. J., Hydinger, M.**  
Comparison of Tyrotropin-Releasing Hormone with Melanocyte-Stimulating-Hormone-Release-Inhibiting Factor as Pentobarbital Antagonists in Monkeys 205
- Cunningham, R. F.**, see Shei, W. L., et al. 315
- Członkowski, A.**, see Kostowski, W., et al. 191
- Das, P.**, see Banerjee, U. 299
- Davis, J. M.**, see Smith, R. C. 1
- Davis, W. M.**, see Smith, S. G., et al. 223
- Dayton, P. G.**, see Shei, W. L., et al. 315
- Defeudis, F. V.**, see Kulig, B. M., et al. 255
- Drucker-Colin, R. R.**, see Rojas-Ramírez, J. A., et al. 147
- Duhm, J.**, see Greil, W., et al. 19
- Dunai-Kovács, Z., Székely, J. I.**  
Effect of Apomorphine on the Antinociceptive Activity of Morphine 65
- Dunner, D. L., Heiber, S., Perel, J. M.**  
The Effect of L-Tryptophan Administration on the Concentration of Probenecid in Plasma and Cerebrospinal Fluid in Patients 305
- Eisenried, F.**, see Greil, W., et al. 19
- Elion, R.**, see Hartmann, E. 131
- Eriksson, T.**, see Högman, B., et al. 165
- Fraňková, S.**  
Drug-Induced Changes in the Maternal Behavior of Rats 83
- Fukushima, H.**, see Nakamura, M. 121
- Gauron, E. F.**, see Rowley, V. N. 259
- Gianguzza, S.**, see Cannizzaro, G., et al. 243
- Goldberg, L.**, see Högman, B., et al. 165
- Goldstein, A.**, see Grevert, P. 111
- Golembiowska, K.**, see Scheel-Krüger, J., et al. 55
- Gonzalez-Portal, C.**, see Kulig, B. M., et al. 255
- Goudie, A. J.**  
Discriminative Stimulus Properties of Fenfluramine in an Operant Task: An Analysis of its Cue Function 97
- Greil, W., Eisenried, F., Becker, B. F., Duhm, J.**  
Interindividual Differences in the  $\text{Na}^+$ -Dependent  $\text{Li}^+$  Countertransport System and in the  $\text{Li}^+$  Distribution Ratio across the Red Cell Membrane among  $\text{Li}^+$ -Treated Patients 19
- Greizerstein, H. B.**  
Tolerance to Ethanol: Effect of Congeners Present in Bourbon 201
- Grevert, P., Goldstein, A.**  
Some Effects of Naloxone on Behavior in the Mouse 111

- Grupp, L. A.**  
Effects of Pimozide on the Acquisition, Maintenance, and Extinction of an Amphetamine-Induced Taste Aversion 235
- Guillemin, R.**, see Janowsky, D. S., et al. 295
- Handwerker, M. J.**, see Spanis, C. W., et al. 213
- Hansen, L. B., Larsen, N.-E.**  
Plasma Concentrations of Perphenazine and its Sulphoxide Metabolite during Continuous Oral Treatment 127
- Hartmann, E., Elion, R.**  
The Insomnia of 'Sleeping in a Strange Place': Effects of *l*-Tryptophan 131
- Hartmann, E., Orzack, M. H., Branconnier, R.**  
Sleep Deprivation Deficits and Their Reversal by *d*- and *l*-Amphetamine 185
- Haycock, J. W.**, see Spanis, C. W., et al. 213
- Heiber, S.**, see Dunner, D. L., et al. 305
- Herz, A.**, see Laschka, E. 33
- Högman, B., Bergman, H., Borg, S., Eriksson, T., Goldberg, L., Jones, A. W., Linde, C.-J., Tengroth, B.**  
Readaptation Time after Photo Stress. Alcohol-Induced Acute and Post-Alcohol 'Hangover' Changes in Ocular Readaptation Time 165
- Holmgren, B.**, see Järbe, T. U. C. 39
- Holtzman, S. G.**, see Schaefer, G. J. 227
- Hughes, R. N., Syme, L. A., Syme, G. J.**  
Open-field Behaviour in Sheep following Treatment with the Neuroleptics Azaperone and Acetylpromazine. **Erratum** 321
- Hydinger, M.**, see Crowley, T. J. 205
- Ingle, D. J.**, see Sahagian, D. E. 319
- Iqbal, S.**, see Saxena, P. N., et al. 89
- Israili, Z. H.**, see Shei, W. L., et al. 315
- Järbe, T. U. C., Holmgren, B.**  
Discriminative Properties of Pentobarbital after Repeated Noncontingent Exposure in Gerbils 39
- Janowsky, D. S., Segal, D. S., Abrams, A., Bloom, F., Guillemin, R.**  
Negative Naloxone Effects in Schizophrenic Patients 295
- Janssen, P. A. J.**, see Colpaert, F. C., et al. 169
- Johanson, C. E.**  
The Effects of Electric Shock on Responding Maintained by Cocaine Injections in a Choice Procedure in the Rhesus Monkey 277
- Johnson, H. R.**, see Bartus, R. T. 249
- Johri, M. B. L.**, see Saxena, P. N., et al. 89
- Jones, A. W.**, see Högman, B., et al. 165
- Kostowski, W., Członkowski, A., Rewerski, W., Piechocki, T.**  
Morphin Action in Grouped and Isolated Rats and Mice 191
- Krug, M., Ott, T., Schulzeck, K., Matthies, H.**  
Effects of Orotic Acid and Piracetam on Cortical Bio-electrical Activity in Rabbits 73
- Kula, N. S.**, see Baldessarini, R. J., et al. 45
- Kulig, B. M., Gonzalez-Portal, C., Somoza, E., Defeudis, F. V.**  
Effect of Di-*n*-Propylacetate on the 'Binding' of GABA to a Synaptosome-Enriched Fraction of Rat Cerebral Cortex 255
- Larsen, N.-E.**, see Hansen, L. B. 127
- Laschka, E., Herz, A.**  
Sites of Action of Morphine Involved in the Development of Physical Dependence in Rats. III. Autoradiographic Studies 33
- Levett, A., Saayman, G. S., Ames, F.**  
The Effects of *Cannabis sativa* on the Behavior of Adult Female Chacma Baboons (*Papio ursinus*) in Captivity 79
- Linde, C.-J.**, see Högman, B., et al. 165
- Lindgren, S.**, see Post, C., et al. 105
- Lusink, G.**, see Weiss, B., et al. 289
- Malmgren, H.**, see Post, C., et al. 105
- Martin, W. R.**, see Sharpe, L. G., et al. 115
- Matthies, H.**, see Krug, M., et al. 73
- Maxson, S. C., Towle, A. C., Sze, P. Y.**  
Brain  $\gamma$ -Aminobutyric Acid and Acoustic Priming in C57BL/B6g Mice 217
- McGaugh, J. L.**, see Spanis, C. W., et al. 213
- McKearney, J. W.**, see Smith, J. B. 151
- Meyerson, B. J.**, see Michanek, A. 175
- Michanek, A., Meyerson, B. J.**  
A Comparative Study of Different Amphetamines on Copulatory Behavior and Stereotype Activity in the Female Rat 175
- Mogilnicka, E.**, see Scheel-Krüger, J., et al. 55
- Moisset, B.**  
Genetic Analysis of the Behavioral Response to *d*-Amphetamine in Mice 263
- Mu, J. Y.**, see Shei, W. L., et al. 315
- Nakamura, M., Fukushima, H.**  
Effect of Benzodiazepines on Central Serotonergic Neuron Systems 121
- Niemegeers, C. J. E.**, see Colpaert, F. C., et al. 169
- Orzack, M. H.**, see Hartmann, E., et al. 185
- Ossenkopp, K.-P.**, see Sanberg, P. R. 207
- Ott, T.**, see Krug, M., et al. 73
- Overton, D. A.**  
Comparison of Ethanol, Pentobarbital, and Phenobarbital Using Drug vs. Drug Discrimination Training 195
- Palfai, T., Walsh, T. J., Albala, B. J., Brown, O. M.**  
Effects of *l*-Dihydroxyphenylalanine (*l*-Dopa) and *d,l*-5-Hydroxytryptophan (*d,l*-5-HTP) on Reserpine-Induced Amnesia 269
- Perel, J. M.**, see Dunner, D. L., et al. 305
- Pickworth, W. B.**, see Sharpe, L. G., et al. 115
- Piechocki, T.**, see Kostowski, W., et al. 191
- Posadas-Andrews, A.**, see Rojas-Ramírez, J. A., et al. 147
- Post, C., Lindgren, S., Bertler, A., Malmgren, H.**  
Pharmacokinetics of N-Desmethyldiazepam in Healthy Volunteers after Single Daily Doses of Dipotassium Chlorazepate 105
- Provenzano, P. M.**, see Cannizzaro, G., et al. 243

- Randrup, A., Bræstrup, C.**  
Uptake Inhibition of Biogenic Amines by Newer Anti-depressant Drugs: Relevance to the Dopamine Hypothesis of Depression 309
- Rewerski, W.,** see Kostowski, W., et al. 191
- Rojas-Ramírez, J. A., Aguilar-Jiménez, E., Posadas-Andrews, A. Bernal-Pedraza, J. G., Drucker-Colin, R. R.**  
The Effects of Various Protein Synthesis Inhibitors on the Sleep-Wake Cycle of Rats 147
- Rose, R. P.,** see Spanis, C. W., et al. 213
- Rowley, V. N., Gauron, E. F.**  
Effects of Chronic Administration of Diphenylhydantoin on Learning and Offspring Behavior 259
- Saayman, G. S.,** see Levett, A., et al. 79
- Sahagian, D. E., Ingle, D. J.**  
The Effects of Amphetamine on Maze Learning by Goldfish 319
- Sanberg, P. R., Ossenkopp, K.-P.**  
Dose-Response Effects of Taurine on Some Open-Field Behaviors in the Rat 207
- Santelli, S.,** see Weiss, B., et al. 289
- Saxena, P. N., Chawla, N., Johri, M. B. L., Iqbal, S.**  
Nature of Receptors Involved in Apomorphine Responses in Pigeons 89
- Schaefer, G. J., Holtzman, S. G.**  
Dose- and Time-Dependent Effects of Narcotic Analgesics on Intracranial Self-Stimulation in the Rat 227
- Scheel-Krüger, J., Golembiowska, K., Mogilnicka, E.**  
Evidence for Increased Apomorphine-Sensitive Dopaminergic Effects after Acute Treatment with Morphine 55
- Schulzeck, K.,** see Krug, M., et al. 73
- Segal, D. S.,** see Janowsky, D. S., et al. 295
- Setler, P.,** see Zarevics, P., et al. 283
- Sharpe, L. G., Pickworth, W. B., Martin, W. R.**  
Actions of Amphetamine and Antagonists on Pupil Diameter in the Chronic Sympathectomized Dog 115
- Shei, W. L., Mu, J. R., Cunningham, R. F., Israili, Z. H., Dayton, P. G.**  
Probenecid in CSF and Plasma of Rabbits and Dogs Measured by Radioimmunoassay 315
- Skett, P.,** see Alfredsson, G., et al. 13
- Smith, D. F.**  
Analysis of a School of Thought on the Effects of Lithium on Behavior 103
- Smith, J. B., McKearney, J. W.**  
Changes in the Rate-Increasing Effects of *d*-Amphetamine and Fentobarbital by Response Consequences 151
- Smith, R. C., Davis, J. M.**  
Comparative Effects of *d*-Amphetamine, *l*-Amphetamine, and Methylphenidate on Mood in Man 1
- Smith, S. G., Werner, T. E., Davis, W. M.**  
Alcohol-Associated Conditioned Reinforcement 223
- Somoza, E.,** see Kulig, B. M., et al. 255
- Spanis, C. W., Haycock, J. W., Handwerker, M. J., Rose, R. P., McGaugh, J. L.**  
Impairment of Retention of Avoidance Responses in Rats by Posttraining Diethyldithiocarbamate 213
- Syme, G. J.,** see Hughes, R. N., et al. 321
- Syme, L. A.,** see Hughes, R. N., et al. 321
- Sze, P. Y.,** see Maxson, S. C., et al. 217
- Székely, J. I.,** see Dunai-Kovács, Z. 65
- Tapp, W. N.,** see White, B. C. 211
- Tengroth, B.,** see Högman, B., et al. 165
- Towle, A. C.,** see Maxson, S. C., et al. 217
- Walsh, T. J.,** see Palfai, T., et al. 269
- Walton, K. G.,** see Baldessarini, R. J., et al. 45
- Weidley, E.,** see Zarevics, P., et al. 283
- Weiss, B., Santelli, S., Lusink, G.**  
Movement Disorders Induced in Monkeys by Chronic Haloperidol Treatment 289
- Werner, T. E.,** see Smith, S. G., et al. 223
- White, B. C., Tapp, W. N.**  
Unilateral Catecholamine Depletion of the Corpus Striatum and Amphetamine-Induced Turning: An Ontogenetic Study 211
- Wiesel, F.-A.,** see Alfredsson, G., et al. 13
- Winter, J. C.**  
Morphine and Ethanol as Discriminative Stimuli: Absence of Antagonism by *p*-Chlorophenylalanine Methyl Ester, Cinanserin, or BC-105 159
- Zarevics, P., Weidley, E., Setler, P.**  
Blockade of Intracranial Self-Stimulation by Antipsychotic Drugs: Failure to Correlate with Central Alpha-Noradrenergic Blockade 283

11

1. The first part of the report deals with the general situation of the country and the progress of the work during the year. It also mentions the results of the various investigations and the conclusions drawn from them.

2. The second part of the report deals with the results of the various investigations and the conclusions drawn from them. It also mentions the progress of the work during the year and the general situation of the country.

3. The third part of the report deals with the results of the various investigations and the conclusions drawn from them. It also mentions the progress of the work during the year and the general situation of the country.

4. The fourth part of the report deals with the results of the various investigations and the conclusions drawn from them. It also mentions the progress of the work during the year and the general situation of the country.

5. The fifth part of the report deals with the results of the various investigations and the conclusions drawn from them. It also mentions the progress of the work during the year and the general situation of the country.

6. The sixth part of the report deals with the results of the various investigations and the conclusions drawn from them. It also mentions the progress of the work during the year and the general situation of the country.